

ABSTRACT OF THE DISCLOSURE

A received signal passed through an HPF is supplied to an input switching circuit where the signal is switched to any of HIGH BAND, MID BAND and LOW BAND circuitry. The received signal of each band

5      circuitry is band-switched by an RF amplification input BPF, RF-amplified by an RF amplifier and then a resultant received signal is supplied from an RF amplification output BPF. The received signal is mixed with a local oscillation signal from a local oscillator circuit by a mixer circuit to generate an intermediate-frequency signal. The intermediate-frequency signal is supplied to an IF amplifier circuit, a SAW filter and an IF amplifier circuit. A PLL channel select circuit outputs a switching voltage for each band and conduct PLL control for the local oscillator circuit.